

## CLAIMS

- 1/ A radiating cable comprising a pair of insulated conductor wires (2), the cable being characterized in that it comprises at least one cable segment (1) having first ends (3) connected to a load (4) equal to an impedance characteristic of the cable segment, and second ends (5) connected to a connector.
- 2/ A radiating cable according to claim 1, characterized in that it comprises at least two cable segments whose second ends (5) are connected to the connector (6) in a parallel configuration.
- 3/ A radiating cable according to claim 2, characterized in that the two cable segments (1) are identical.
- 4/ A radiating cable according to any one of claims 1 to 3, characterized in that the pairs of insulated conductor wires (2) are placed in a supporting sheath (9).
- 5/ A radiating cable according to any one of claims 1 to 4, characterized in that the insulated conductor wires are twisted together, at least in part.
- 6/ A radiating cable according to claim 5, characterized in that the insulated conductor wires (2) are twisted at a pitch lying in the range about 15 times to about 30 times the diameter of the insulated wires.
- 7/ A radiating cable according to claim 4 or claim 6, characterized in that the wires are twisted alternately with right-handed twist and with left-handed twist.
- 8/ A radiating cable according to claim 7, characterized in that a portion of cable with right-handed twist is separated from a portion of cable with left-handed twist

by a portion of cable in which the insulated wires are substantially parallel to each other.

5 9/ A radiating cable according to any one of claims 1 to 8, characterized in that it includes a dielectric tape (7) in contact with the insulated conductor wires.

10 10/ A radiating cable according to any one of claims 1 to 9, characterized in that it includes metal tapes wound helically without overlap around the pairs of insulated conductor wires.

15 11/ A radiating cable according to claim 10 as dependent on claim 9, characterized in that the metal tapes (10) extend between the dielectric tape (7) and the outer supporting sheath (9).

20 12/ A radiating cable according to any one of claims 1 to 11, characterized in that the two wires of the pair differ from each other in at least one parameter comprising: conductor diameter, conductor nature or structure, and the thickness or the nature of the insulation surrounding the conductors.